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1 [Special issue: AI in engineering](#)

D. Sriram, R. Joobhani

January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available: [pdf\(8.79 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1985 SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is sixty papers received from over six countries. About half the papers were received over the comp

2 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on C research**

Full text available: [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process diagrams are often used to obtain a better understanding of the execution of the application. The tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are very complex and do not provide the user with the desired overview of the application. In our experiments, tools display repeated occurrences of non-trivial communication ...

3 [Special issue on knowledge representation](#)

Ronald J. Brachman, Brian C. Smith

February 1980 **ACM SIGART Bulletin**, Issue 70

Full text available: [pdf\(13.13 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a special knowledge representation research. We felt that there were two useful functions such an issue could serve: we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to categorize approaches and techniques are currently being developed. Second ...

4 [An Assessment of Techniques for Proving Program Correctness](#)

Bernard Elspas, Karl N. Levitt, Richard J. Waldinger, Abraham Waksman

June 1972 **ACM Computing Surveys (CSUR)**, Volume 4 Issue 2


Full text available: [pdf\(4.36 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 Technical reports

SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1


Full text available:  [pdf\(5.28 MB\)](#)

Additional Information: [full citation](#)

6 Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo

July 2001 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 23

Full text available:  [pdf\(1.95 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Since the early days of logic programming, researchers in the field realized the potential for exploiting parallelism present in the execution of logic programs. Their high-level nature, the presence of non-determinism and their referential transparency, among other characteristics, make logic programs interesting candidates for obtaining speedups through parallel execution. At the same time, the fact that the typical applications of logic programming frequently involve irregular computations ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, parallel processing

7 ABSTRACTS OF INTEREST

Susanne M. Humphrey, Ben Shneiderman

July 1993 **ACM SIGCHI Bulletin**, Volume 25 Issue 3

Full text available:  [pdf\(2.00 MB\)](#)


Additional Information: [full citation](#), [abstract](#)

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8 Special section: Special issue on AI and Database research

Jonathan J. King

October 1983 **ACM SIGART Bulletin**, Issue 86

Full text available:  [pdf\(3.84 MB\)](#)



Additional Information: [full citation](#), [abstract](#)

This collection of research summaries spans a very wide range of interests under the general heading of Database research. In this introduction, I briefly describe the leading areas of interest that emerge from the reports submitted for this issue.

9 The FINITE STRING newsletter: Abstracts of current literature

Computational Linguistics Staff

April 1986 **Computational Linguistics**, Volume 12 Issue 2

Full text available:  [pdf\(2.41 MB\)](#) 

Additional Information: [full citation](#)

[Publisher Site](#)

10 The FINITE STRING Newsletter: Abstracts of current literature

Computational Linguistics Staff


January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Full text available:  pdf(6.15 MB)  Publisher Additional Information: [full citation](#)
[Site](#)

11 Explanation-based learning: a survey of programs and perspectives

Thomas Ellman

June 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 2


Full text available:  pdf(6.15 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Explanation-based learning (EBL) is a technique by which an intelligent system can learn by observing. EBL systems are characterized by the ability to create justified generalizations from single training examples. They are also distinguished by their reliance on background knowledge of the domain under study. Usually viewed as a method for performing generalization, it can be viewed in other ways as well. EBL can be seen as a method that performs forward chaining.

12 Concurrency control in advanced database applications

Naser S. Barghouti, Gail E. Kaiser

September 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 3



Full text available:  pdf(4.69 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: advanced database applications, concurrency control, cooperative transactions, design, extended transaction models, long transactions, object-oriented databases, relaxing serializability

13 Articles: The Deliberate Revolution

Mike Burner


March 2003 **Queue**, Volume 1 Issue 1

Full text available:  pdf(326.81 KB)  html(64.11 KB) Additional Information: [full citation](#), [index terms](#)

14 Reuse of compiler analysis in a programming environment

M. P. Blivens, M. L. Soffa

February 1989 **Proceedings of the 17th conference on ACM Annual Computer Science Conference**


Full text available:  pdf(1.15 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Productivity in the development of software can be increased by reusing code and design analysis. In this paper, we describe an incremental optimizing compiler that reuses target code and compiler analysis. In order to be practical, it shares a database of information with other tools in a programming environment. The analysis performed by a compiler is reused to greatly reduce the recompilation time during program development and to incrementally produce target code that is correct.

15 METRICS: a system architecture for design process optimization

Stephen Fenstermaker, David George, Andrew B. Kahng, Stefanus Mantik, Bart Thielges

June 2000 **Proceedings of the 37th conference on Design automation**

Full text available:  pdf(119.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe METRICS, a system to recover design productivity via new infrastructure for design process optimization. METRICS seeks to treat system design and implementation as a science, rather than an art. The precept is that measuring a design process is a prerequisite to optimizing it and continuously achieving productivity. METRICS (i) unobtrusively gathers characteristics of design artifacts, design process, and communication ...

16 Slicing real-time programs for enhanced schedulability

Richard Gerber, Seongsoo Hong

May 1997 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 19

Full text available:  [pdf\(378.88 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


In this article we present a compiler-based technique to help develop correct real-time systems. The problem we consider is that of multiprogrammed real-time applications, in which periodic tasks control physical devices interacting with external sensors and actuators. While a system is up and running, these operations must be performed as specified—otherwise the system may fail. Correctness depends not only on each process operating individually, but also on the time-multiplexed behavior of ...

Keywords: priority assignment, program slicing, static priority scheduling, system tuning

17 Safe polymorphic type inference for a dynamically typed language: translating Scheme to ML

Fritz Henglein, Jakob Rehof

October 1995 **Proceedings of the seventh international conference on Functional programming and computer architecture**


Full text available:  [pdf\(1.33 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Types for path correctness of XML queries

Dario Colazzo, Giorgio Ghelli, Paolo Manghi, Carlo Sartiani

September 2004 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN international conference on Functional programming**, Volume 39 Issue 9

Full text available:  [pdf\(208.70 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


If a subexpression in a query will never contribute data to the query answer, this should be regarded as a redundancy. This principle has been recently accepted into mainstream XML query languages, but was still waiting for a complete treatment. We provide here a precise definition for this class of errors, and define a type system that is sound and complete, in its search for such errors, for a core language, under mild restrictions on the use of recursion in type definitions. In the process, we de ...

Keywords: XML queries, XML types, type correctness

19 Active database systems

Norman W. Paton, Oscar Díaz

March 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 1

Full text available:  [pdf\(2.68 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Active database systems support mechanisms that enable them to respond automatically to events that are taking place either inside or outside the database system itself. Considerable effort has been directed toward improving understanding of such systems in recent years, and many different proposals have been suggested. This high level of activity has not yielded a single agreed-upon standard for the integration of active functionality with conventional database systems ...

Keywords: active databases, events, object-oriented databases, relational databases


20 Data base directions: the next steps

John L. Berg

November 1976 **ACM SIGMOD Record , ACM SIGMIS Database**, Volume 8 , 8 Issue 4 , 2

Full text available:

Additional Information:

 pdf (9.95 MB)

[full citation](#), [abstract](#)





What information about data base technology does a manager need to make prudent decisions at new technology? To provide this information the National Bureau of Standards and the Association Machinery established a workshop of approximately 80 experts in five major subject areas. The first were auditing, evolving technology, government regulations, standards, and user experience. Each a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government management objectives, privacy, security, standards, technology assessment, user experience

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S2	60	instrument\$6 same register\$4 same data and "717"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 14:01
S3	4	(instrument\$6 same register\$4 same data and "717"/\$.ccls.) and schema	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 12:10
S4	2	instrument\$6 same schema and register\$4 same data and "717"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 12:25
S5	0	instrument\$6 and schema same registering and "717"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 12:32
S6	4	instrument\$6 and schema same registering	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 12:33
S7	1	instrument\$6 same schema same registering	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 12:33
S8	5	instrument\$6 same schema and registering same data	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 12:35
S9	2	(determin\$5 or monitor\$3 or analy\$6) same schema and instrumentation same data and (registered or registering) same data and "717"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 12:38

S10	10	(determin\$5 or monitor\$3 or analy\$6) same schema and instrumentation same data and (registered or registering) same data	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 12:38
S11	31	(determin\$5 or monitor\$3 or analy\$6) same schema and instrument\$5 same data and (registered or registering) same data	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 12:39
S12	11	(determin\$5 or monitor\$3 or analy\$6) same schema and instrument\$5 same (registered or registering)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 12:40
S13	25	(determin\$5 or monitor\$3 or analy\$6 or check\$3) near\$5 schema and instrument\$5 and (registered or registering)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 12:44
S14	45	schema same (registering or registered or stor\$5) and schema same instrument\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 12:45
S15	62	instrument\$6 same (registering or registered or record\$3 or stor\$5 or log\$4) and schema same instrument\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 14:15
S16	2257	(instrument\$6 or collect\$6 or gather\$6) same data and schema same (registering or registered or record\$3 or stor\$5 or log\$4) and (registering or registered or record\$3 or stor\$5 or log\$4) same (instrument\$6 or collect\$6 or gather\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 14:29
S17	63	(instrument\$6 or collect\$6 or gather\$6) same data and schema same (registering or registered or record\$3 or stor\$5 or log\$4) and (registering or registered or record\$3 or stor\$5 or log\$4)near\$5 (instrument\$6 or collect\$6 or gather\$6) and "717"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 14:30

S18	108	((instrument\$6 or collect\$6 or gather\$6) same data and schema same (registering or registered or record\$3 or stor\$5 or log\$4) and (registering or registered or record\$3 or stor\$5 or log\$4) same (instrument\$6 or collect\$6 or gather\$6)) and "717"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 15:23
S19	29	((((instrument\$6 or collect\$6 or gather\$6) same data and schema same (registering or registered or record\$3 or stor\$5 or log\$4) and (registering or registered or record\$3 or stor\$5 or log\$4) same (instrument\$6 or collect\$6 or gather\$6)) and "717"/\$.ccls.) and call\$3 same (API or application near programing near interface)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 14:35
S20	18	((((instrument\$6 or collect\$6 or gather\$6) same data and schema same (registering or registered or record\$3 or stor\$5 or log\$4) and (registering or registered or record\$3 or stor\$5 or log\$4) same (instrument\$6 or collect\$6 or gather\$6)) and "717"/\$.ccls.) and instrument\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 16:26
S21	3	(show\$3 or display\$3 or expos\$6 or determin\$6) near7 (instrument\$6 or gathered or collected) same (data near2 source or data near base or database) and register\$3 same (collect\$6 or gather or instrument\$6) same schema	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 16:32
S22	136	(show\$3 or display\$3 or expos\$6 or determin\$6) same (instrument\$6 or gathered or collected) same (data near2 source or data near base or database) and (register\$3 or log\$6 or stor\$6) same (collect\$6 or gather or instrument\$6) same schema	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 16:57
S23	4	((show\$3 or display\$3 or expos\$6 or determin\$6) same (instrument\$6 or gathered or collected) same (data near2 source or data near base or database) and (register\$3 or log\$6 or stor\$6) same (collect\$6 or gather or instrument\$6) same schema) and "717"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 16:37

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S27	2	("5857103").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/03 15:47
S28	4	((("5857103") or ("5828866")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/03 15:50
S29	4	((("5857103") or ("5828866")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/30 10:24
S30	2	("5313614").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/04 13:12
S31	0	("(instrument\$7orcollect\$4orgathe r\$3)near4(determin\$6orshow\$3or expos\$5)andschemasame(collect\$ 3orgather\$3orinstrument\$6)and(re gister\$5orlog\$4orrecord\$3orstor\$3)near3(collect\$3orgather\$3orinstru ment\$6)and(APIorapplicationnearp rogrammingnearinterface)").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/04 13:16

S32	55	(instrument\$7 or collect\$4 orgather\$3) near4 (determin\$6 or show\$3 or expos\$5) and schema same (collect\$3 or gather\$3 or instrument\$6) and (register\$5 or log\$4 or record\$3 or stor\$3) near3 (collect\$3 or gather\$3 or instrument\$6) and (API or application near programming near interface)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/04 14:09
S33	2	("6026433").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/04 14:09